

## ABSTRACT

A PCI Express to PCI bridge enables upstream and downstream isochronous data transfer by modifying the PCI bus arbiter so that the PCI device on the PCI bus is treated as a virtual port for the bridge. Data from the PCI device is assigned via a port arbitration table to sufficient bandwidth so that the data from the PCI device can be transferred upstream isochronously. The bridge also handles downstream isochronous data transfer.